



4th
Basic

5th
Advanced

Helping With Math

USA
GRADES

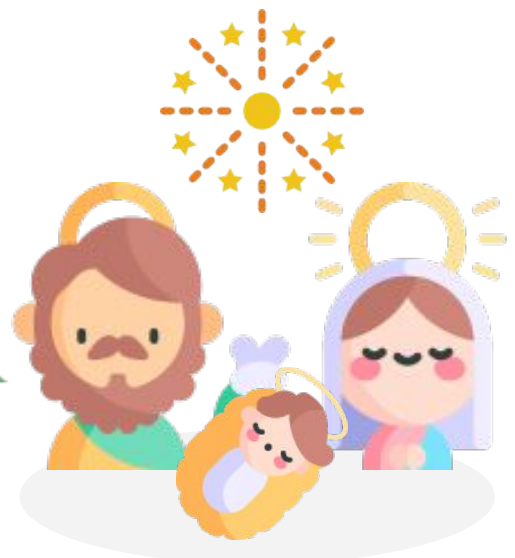
Composite Numbers

*Suitable for students
aged 8-10*



This pack is suitable for learners aged 8-10 years old or 4th and 5th graders (USA). The content covers fact files and relevant basic and advanced activities involving composite numbers.

Christmas (December 25) is a Christian festival celebrating the birth of Jesus



- Christmas is being celebrated every 25th day of December to commemorate the birth of Jesus Christ.
- Some nations referred to Christmas as the Feast of Winter Solstice.
- The other terms for Christmas are Navidad in Spanish, Natale in Italian, and Noël in French.
- Christmas is the season for giving gifts, hosting family reunions and gatherings, and practicing Advent activities such as spiritual recollections and holy mass.



COMPOSITE NUMBERS

6 is a composite number because it can be divided by 1, 2, 3 and 6.

$$6 \div 1 = 6$$

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$

$$6 \div 6 = 1$$



- ❖ **Composite numbers** are numbers which have more than two factors.
- ❖ Composite numbers can be divided by 1, itself, and another number.

List down five examples of composite numbers.

18 is a composite number because it can be divided by 1, 2, 3, 6, 9 and 18.

$$18 \div 1 = 18$$

$$18 \div 2 = 9$$

$$18 \div 3 = 6$$

$$18 \div 6 = 3$$

$$18 \div 9 = 2$$

$$18 \div 18 = 1$$



COMPOSITE NUMBERS

Composite Numbers

- ❖ The first few composite numbers are 4, 6, 8, 9, and 10
- ❖ A composite number is a positive integer that can be formed by getting the product of two smaller positive integers.
- ❖ All composite numbers are evenly divisible by smaller numbers that can be prime or composite.
- ❖ Every composite number is composed of two or more prime numbers.

Do you want some trivia about composite numbers? Refer to the details below:

- There are two types of composite numbers: **odd composite numbers** and **even composite numbers**.
- 4 is the smallest composite number.



1. Enumerate three odd composite numbers.

2. List down five even composite numbers.



TABLE OF ACTIVITIES

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MERRY CHRISTMAS!

G4
Basic

“Merry Christmas to everyone!”, says Clark. He is really excited to celebrate the holiday with his family and friends but there’s still homework to do. Can you help him do the activity below?

Read and understand each statement. Determine if each statement is TRUE or FALSE. Write MERRY if it is correct, otherwise replace the underlined word/s to correct it.

- _____ 1. Composite numbers have more than two factors.
- _____ 2. Some composite numbers are 4, 8, 10, 13, and 15.
- _____ 3. 20 and 30 are examples of even composite numbers.
- _____ 4. The factors of 60 are 1, 2, 3, 4, 5, 6, 10, 15, and 60.
- _____ 5. 89 is a non-composite number.

List down the factors of 64.

List down the factors of 81.



HEY! SANTA CLAUS IS COMING TO TOWN

G4
Basic

Help Santa Claus find his way to HWM Town and deliver his gifts to 4th graders. Do that by fully encircling the composite numbers from the pool of numbers below.



32

17

45

90

57

3



91

27

48



80

21

29

14



FEAST OF THE WINTER SOLSTICE

G4
Basic

Experience the freezing breeze of the winter solstice by adding each pair of numbers then identifying the sum whether it is prime or composite.

1. $19 + 35 = \square$

2. $11 + 68 = \square$

3. $15 + 45 = \square$

4. $12 + 78 = \square$

5. $10 + 57 = \square$

6. $13 + 76 = \square$



DECORATING THE CHRISTMAS TREE

G4
Basic

This is a composite Christmas tree. Decorate it with Christmas balls that contains composite numbers from 1 to 20. Put color too!



A SEASON OF GIFT-GIVING

G4
Basic

Christmas is a season of giving gifts. For us not to mix-up the gifts, let us sort them as prime and composite gifts. Cut and paste the gifts to the box where they belong.

PRIME GIFTS	COMPOSITE GIFTS



MATH TASK UNDER THE MISTLETOE

G5
Advanced

Find out what is the hidden math task under the mistletoe.



Determine the factors of the following numbers using a factor tree. Then, enclose the prime factors in triangle while for the composite factors, encircle them.

50

36

18

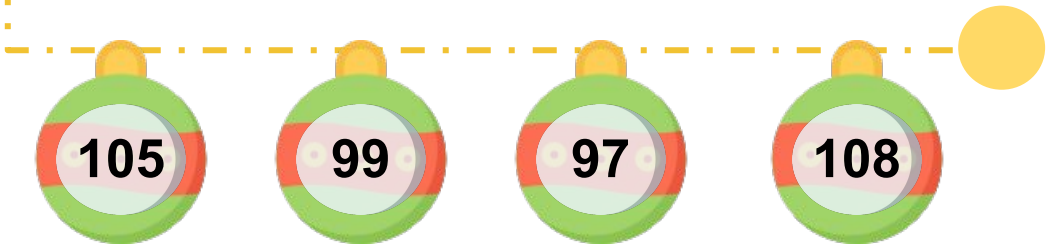
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CHRISTMAS BALLS: FIND THE DIFFERENCE

G5
Advanced

These christmas balls needs to be sorted because they were mistakenly grouped. Cross out which ball is not part of the group then describe the general grouping of each set.



SANTA'S RIDDLE

G5
Advanced

Read and analyze these Christmas riddles. Can you solve all of them?

1. We are composite numbers from 15 - 25. We are all divisible by 3. Compute for our product.
2. Find all the composite numbers from 30 - 60 that are both divisible by 3 and 4
3. How many non-prime numbers are there from 75 - 100 that are either divisible by 5 or 8?

1.

2.

3.



CHRISTMAS WISHLIST

G5
Advanced

Mark is a math enthusiast. This yuletide season, Mark created a math wishlist. Can you make his wishes come true?

1. List down all composite numbers from 1 - 20 that are odd.

2. How many composite numbers from 21 - 50 are divisible by 7?

3. What composite numbers are multiples of 3 and 5 if the range of numbers are from 51 - 75?

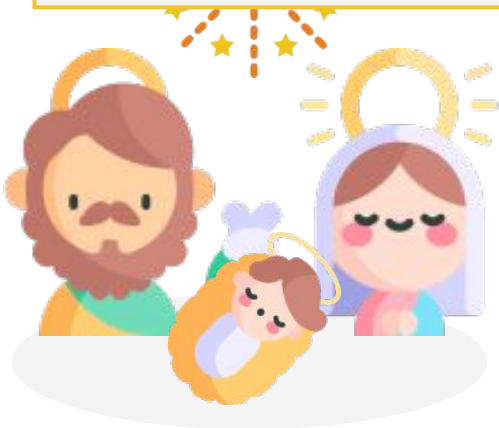
4. How many composite numbers are divisible by 9 from 76 - 100?



HAPPY BIRTHDAY JESUS!

G5
Advanced

Christmas is a joyful celebration and time to give thanks. Christians celebrate the birth of their redeemer, Jesus Christ. Think of some blessings in your life that are composite in quantity. Write a short essay about them below.



ANSWER GUIDE

Activity 1

1. MERRY
2. 4, 8, 10, 12, and 15
3. MERRY
4. 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60.
5. MERRY

Activity 2

The composite numbers are 32, 45, 90, 57, 91, 27, 48, 80, 21, and 14.

Activity 3

1. 54 (Composite)
2. 77 (composite)
3. 60 (composite)
4. 90 (composite)
5. 67 (Prime)
6. 89 (Prime)

Activity 4

Answers may vary. The composite numbers are 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20.

Activity 5

Prime gifts: 43, 31, 19, 83
Composite gifts: 21, 56, 27, 72, 45, 33

Activity 9

1. 9, 15
2. 5
3. 2
4. 3

Activity 10: Answers may vary.



ANSWER GUIDE

Activity 7

Group category: Composite numbers, difference: 97

Group category: Prime numbers, difference: 51

Group category: Composite number, difference: 101

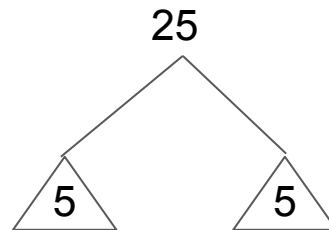
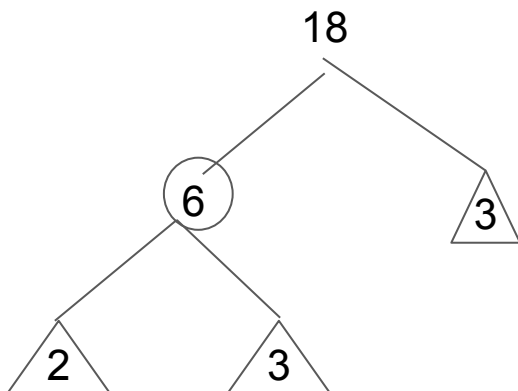
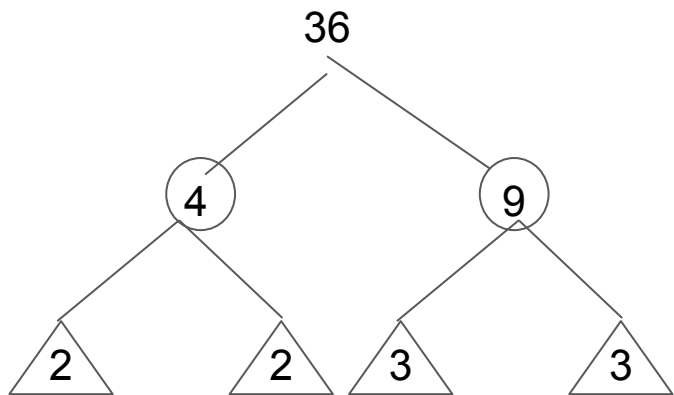
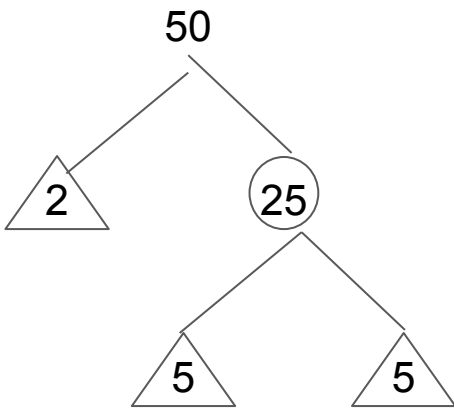
Activity 8

1. The numbers are 16, 18, 20, 21, 22, 24. The product must be 9072

2. Ans 36 and 48

3. The numbers are 80, 85, 90, 95, 96. Only 5

Activity 6



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